X850 Plus and X1000 Solar Home System

X850 Plus and X1000
d.light Design

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8

Verify online:
https://data.verasol.org/products/sek/dl-x850plusx1000
Valid until: March 31, 2024

✔	**Meets the requirements in IEC TS 62257-9-8 for Size B Kits**
	Mobile charging
PAYG	**Pay-As-You-Go option available**
6	**Light point(s)**
▶	**Plug-and-play**

*Quality Verified TV sold separately

WARRANTY INFORMATION

The product carries a 2-year warranty with the exception of the following for which the warranty is 1 year: TV remote, solar radio, solar torch. The TV (sold separately) includes a 2-year warranty.

PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m^2/day)	
VeraSol Certified?	Included in Kit?	Appliance[a]	Description	Used alone[b]	Used in combination[c]
yes	included	Main lighting unit	5 light points on High, totalling 1380 lm and 12 W.	11 hours	2.6 hours
yes	included	Torch	88 lumens torch (Li-ion battery: 1.8 Ah, 3.7 V)	64 hours	2.6 hours
yes	included	Radio	Portable (Li-ion battery: 1 Ah, 3.7 V), with a power consumption of 0.39 W while in-use.	260 hours	1.9 hours
no	not included	Mobile phone	Smart phone (5.7 Wh battery)	17 full charge(s)	0.64 full charge(s)
yes	not included	Television	32" diagonal (11 W power consumption while in-use)	13 hours	1.3 hours
no	not included	Fan	Large table/standing/ceiling fan (larger than 16" diameter, 28 W power)	5.2 hours	3.2 hours

Available daily electrical energy[c] (Wh/day)	140

Performance measure	Brightness setting: 4 lamps and 1 tubelight on high; torch on high
Lighting full battery run time[d] for main unit (hours)	10
Lighting full battery run time of the Torch powered by Torch battery (hours)	4
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	14700

[a] Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

[b] Without any other loads used during the run time

[c] Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

[d] Lighting full battery run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.

LIGHTING DETAILS

Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy[e] (lm/W)	CRI[f]	CCT[g]	Distribution type	Lumen maintenance[h]
Hanging lamp	4	3	High	230	110	86	5780	Wide	100%
Tube light (600 lm)	1	3	High	630	110	84	6550	Wide	101%
Torch	1	2	High	88	68	73	6910	Narrow	96%

[e] Lumen efficacy is the power consumption at a light point during the light output test.

[f] Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

[g] Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

[h] Percent of the original light output that remains after 2,000 hours of run time

SPECIAL FEATURES

TV	★	**Quality verified d.light 32" TV available for purchase separately.**

PORTS

3	**USB 2.0 type A**		Mobile phones, torches, and radios can be charged. Adapters are included.
7	**Barrel jack**		Four 19 V ports available to power light points, and three 12 V ports available to power appliances and charge devices.

DURABILITY

Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Drop test (torch and radio), Strain relief test, Physical ingress protection, PV durability tests	
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	Torch	Has protection from occasional rain; met with appropriate warning label
	Radio	Has protection from occasional rain; met with appropriate warning label

SOLAR DETAILS

PV module type	Polycrystalline silicon
PV maximum power	40 watts

MAIN UNIT BATTERY DETAILS

Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Battery package type	32700
Battery capacity	10 Ah
Battery nominal voltage	12.8 V
Battery status/ other indicator lights	LEDs indicate battery state of charge.

PRODUCT DETAILS

Manufacturer name	d.light Design
Product name	X850 Plus and X1000 Solar Home System
Product model / ID number	X850 Plus and X1000
Contact information	testing@dlight.com
Website	www.dlight.com
Dimensions (entire product in package)	25 x 33 x 13 cm
Mass	2610 g

SSS INFORMATION

Specs sheet expiration date	March 31, 2024
Revision	2022.10